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APPLICATION 1	NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/798,407		03/12/2004	Satoshi Tange	023971-0385	5981	
22428	7590	01/13/2006		EXAMINER		
FOLEY	AND LA	RDNER LLP	CHIN, GARY			
SUITE 5 3000 K S	00 TREET NV	<b>V</b> .	ART UNIT	PAPER NUMBER		
WASHI	NGTON, D	C 20007	3661			
				DATE MAILED: 01/13/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	ation No.	Applicant(s)				
		10/798	,407	TANGE ET AL.				
Office Action Summary			ier	Art Unit				
		Gary Cl	nin	3661				
The MAILI Period for Reply	NG DATE of this communic	ation appears on	the cover sheet w	ith the correspondence a	ddress			
A SHORTENED SWHICHEVER IS  - Extensions of time ma after SIX (6) MONTHS  - If NO period for reply ithin Any reply received by	STATUTORY PERIOD FO LONGER, FROM THE MA y be available under the provisions of if from the mailing date of this commu s specified above, the maximum statu- the set or extended period for reply we the Office later than three months afti justment. See 37 CFR 1.704(b).	ILING DATE OF 137 CFR 1.136(a). In no nication. utory period will apply and ill, by statute, cause the a	THIS COMMUNI event, however, may a d will expire SIX (6) MON application to become Al	CATION. reply be timely filed NTHS from the mailing date of this BANDONED (35 U.S.C. § 133).				
Status								
2a)☐ This action 3)☐ Since this a	to communication(s) filed is FINAL. 2th pplication is in condition for condition is in condition for condition for condition for condition is in condition for condition in the condition is in condition for condition in the condition is in the condition in the condition in the condition is in the condition in the condition in the condition is in the condition in the condition in the condition is in the condition in the condition in the condition in the condition is in the condition in the condition in the condition is in the condition in the condition in the condition in the condition is in the condition in the conditi	o)⊠ This action is or allowance exce	pt for formal mat	· •	ne merits is			
Disposition of Claims								
4) ☐ Claim(s) 1-22 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-8,15,21 and 22 is/are rejected.  7) ☐ Claim(s) 9-14 and 16-20 is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
10) The drawing Applicant ma	ation is objected to by the (s) filed on is/are: by not request that any object that drawing sheet(s) including the declaration is objected to	a) accepted or ion to the drawing(s he correction is req	) be held in abeyar uired if the drawing	nce. See 37 CFR 1.85(a).				
Priority under 35 U.	S.C. § 119							
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)  1) Notice of Reference 2) Notice of Draftspers	s Cited (PTO-892) on's Patent Drawing Review (PT	O-948)	Paper No(	Summary (PTO-413) s)/Mail Date				
	ire Statement(s) (PTO-1449 or P			Informal Patent Application (P1	ГО-152)			

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## **DETAILED ACTION**

## Claim Objections

1. Claims 1, 9 and 21-22 are objected to because of the following informalities:

As per claims 1, 21 and 22, the phrase "each of driven wheels of the vehicle" should be "each of the driven wheels of the vehicle".

As per claim 9, lines 10-11, "an absolute value" should be "the absolute value" in order to avoid the antecedent basis problem. Similarly, on line 14, "absolute value" should be "the absolute value". Appropriate correction is required.

## Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-8, 15 and 21-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Matsumoto et al (patent no. 6708098).

The applied reference has a common inventor with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

As per claims 1, 21 and 22, figures 1-2 of the Matsumoto et al reference clearly disclose the claimed lane keep control apparatus and method for an automobile vehicle including a deceleration controlled variable calculating section or means (item 8 and col. 6, lines 56-57) that calculates target brake pressure or the claimed deceleration controlled variable based upon the state of a tendency of a vehicular deviation from a traffic lane and a braking force controlling section or means (item 7) that controls the driven wheels on the basis of the calculated deceleration controlled variable.

As per claims 2-3 and 7, figure 1 and column 4 of the Matsumoto et al reference clearly disclose the claimed traveling information detection section for detecting at least one of the acute angle (see item 14 and yaw angle on col. 4, line 33) and the curvature of the traffic lane (col. 4, line 34).

As per claims 4-5, the additionally claimed turning state detection section for detecting a vehicular turning curvature based upon at least one of the vehicle speed and steering angle is taught in step S40 in figure 2 (also see col. 4, lines 50-58) of the Matsumoto et al reference.

As per claims 6, 8 and 15, the additionally claimed feature of calculating a future deviation quantity estimated value or the future estimated lateral displacement (XS) of the vehicle is clearly taught in step S30 in figure 2 and column 4 of the Matsumoto et al reference.

- 4. Claims 9-14 and 16-20 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 5. The additional references are cited to show the related systems. Applicant(s) should consider them carefully when responding to the current office action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gary Chin whose telephone number is (571) 272-6959. The examiner can normally be reached on Monday-Friday 8:00 AM to 4:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas G. Black can be reached on (571) 272-6956. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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GARY CHIN
PRIMARY EXAMINER